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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,611	10/14/2003	Frank E. Semersky	1-36691	2924
43935 7590 09/04/2007 FRASER CLEMENS MARTIN & MILLER LLC 28366 KENSINGTON LANE DEED DAYS DUDG. OU 43551			EXAMINER	
			VO, HAI	
PERRYSBURG, OH 43551			ART UNIT	PAPER NUMBER
			1771	
			MAIL DATE	DELIVERY MODE
			09/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/684,611	SEMERSKY, FRANK E.				
Office Action Summary	Examiner	Art Unit				
	Hai Vo	1771				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
	VIO OET TO EVENE AMONTH	(0) OD TUBETY (00) BAYO				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN - Extensions of time may be available under the provisions of 37 CFR 1.12 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>02 Ju</u>	ıly 2007.					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-10 and 12-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10, and 12-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal F					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	αιστι εφριισαιίστι				

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1. All of the art rejections are maintained.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2, 5, 8-10, 12, 13, 16-19 and 22 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Park et al (US 5,149,579). Park teaches a container comprising a polypropylene skin layer, polypropylene foam layer, a functional layer and a polypropylene foam layer (column 8, lines 30-60). Park uses carbon dioxide as a blowing agent to form the foam (column 10, lines 45-46), therefore, it is not seen that the foam cells could not have been substantially, inherently filled with carbon dioxide. The skin and the foam layer are made from the same polypropylene. The foam layer and the functional layer are made from different materials.

Park does not teach a blow molded container. However, it is a productby-process limitation not as yet shown to produce a patentably distinct article. It is the examiner's position that the article of Park is identical to or only slightly Application/Control Number: 10/684,611

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different than the claimed article prepared by the method of the claim, because both articles are formed from the same materials, having structural similarity. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or an obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show unobvious differences between the claimed product and the prior art product. In re Marosi, 218 USPQ 289,291 (Fed. Cir. 1983). It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show nonobviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Park. Accordingly, it is the examiner's position that Park anticipates or strongly suggests the claimed subject matter.

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4. Claims 3, 4, 6, 7, 14, 15, 20, 21, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al (US 5,149,579) as applied to claim 1 above, further in view of Hayes et al (US 6,485,819).

Park teaches a container comprising polypropylene film layer, a functional layer and a polypropylene foam layer (column 8, lines 30-60). Park does not

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teach a container comprising a foam layer and a film layer, each made from a polyethylene terephthalate. Hayes, however, teaches a multilayer laminate for use in food packaging comprising a foam layer made from a copolyester that exhibit an improved rate of biodegradation more amendable to solid waste disposal (column 1, lines 5-10). Hayes also teaches a multilayer laminate for use in food packaging wherein a polymeric film can be made from a blend of poly(ethylene terephthalate) with olefins to form mutilayer films with improved water vapor resistance (column 9, lines 60-65; column 10, lines 1-3). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute a copolyester foam for the polypropylene foam layer motivated by the desire to provide the container with higher biodegradation rate and higher thermal resistance. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the poly(ethylene terephthalate) with polypropylene to form a film layer of the Park Patent motivated by the desire to provide the container having improved water vapor resistance (column 9, lines 60-65).

Park teaches a container comprising a non-foamed polypropylene skin layer, polypropylene foam layer, a functional layer (column 8, lines 30-60). Park does not specifically disclose the functional layer made from PET. Hayes, however, teaches a food container comprising a layer of copolyester suitable as a gas barrier (column 8, lines 7-8). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use

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copolyester as the functional layer of Park because copolyester is shown to be a good oxygen barrier and further the use of copolyester provides the container with higher biodegradation rate and higher thermal properties.

5. Claims 1-10, 22, and 23 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hayes et al (US 6,485,819). Hayes teaches a laminate film for use in containers comprising a polyethylene terephthalate (PET) film layer and a copolyester film layer (column 9, lines 61 et seq.). The layer of copolyester is foamed by using carbon dioxide as a blowing agent (column 15, lines 35-40). Therefore, it is the examiner's position that the foam cells are substantially inherently filled with carbon dioxide. Since the foam and the film contain polyethylene terephthalate, they are made from "the same polyethylene terephthalate". The isosorbide polyester renders the foam layer chemically different from the PET film layer.

Hayes does not teach a blow molded container. However, it is a product-by-process limitation not as yet shown to produce a patentably distinct article. It is the examiner's position that the article of Hayes is identical to or only slightly different than the claimed article prepared by the method of the claim, because both articles are formed from the same materials, having structural similarity. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or an obvious from a

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product of the prior art, the claim is unpatentable even though the prior product was made by a different process. *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show unobvious differences between the claimed product and the prior art product. *In re Marosi*, 218 USPQ 289,291 (Fed. Cir. 1983). It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show non-obviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Hayes. Accordingly, it is the examiner's position that Hayes anticipates the claimed subject matter.

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6. Claims 12-17 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayes et al (US 6,485,819) as applied to claim 1 above, further in view of Park et al (US 5,149,579). Hayes teaches a food container comprising a copolyester foam layer. Hayes does not teach a food container comprising two foam layers and a functional layer sandwich between the foam layers. Park teaches a food container comprising two foam layers and a functional layer sandwich between the foam layers. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form a food container comprising a functional layer sandwiched between two copolyester foam layers to provide a container with a water vapor or air barrier, thereby extending the shelf-life of an oxygen-sensitive product containing therein (Park, column 8, lines 50-57).

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- 7. Claims 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayes et al (US 6,485,819) as applied to claim 1 above, further in view of Haase (US 3,684,633). Hayes teaches a laminate film for use in containers comprising a film layer and a layer of copolyester (column 9, lines 61 et seq.). The layer of copolyester is foamed by using carbon dioxide as a blowing agent (column 15, lines 35-40). The laminate may have five layers joined together by heat (column 10, lines 5-10). The film layer can be made from PET, polyethylene, polyethylene sulfide, or polyimide (column 10. lines 1-10). Accordingly, the laminate film comprises one foam layer made from copolyester and other four film layers formed from PET, polyethylene, polyethylene sulfide, or polyimide. Hayes does not specifically disclose the order of the film layer, the foam layer in the laminate to meet the structural limitations as recited in the claims. Haase, however, teaches a dinner plate comprising a polystyrene foam layer sandwiched between the polystyrene film layers. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form a food container having a copolyester foam layer sandwiched between the PET film layers because such a structure is known in the food packaging art and Haase provides necessary detail to practice the invention of Hayes.
- 8. Claims 1- 10, 22 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kocher et al (US 5,919,547) further in view of Hayes et al (US 6,485,819). Kocher teaches a food container comprising a support member 12, a sealant layer (column 10, lines 30-60). The support member and a sealant

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layer are made of a polyethylene terephthalate resin. Hence, they are the same. The support member is polyolefin foam whereas the sealant layer is made from polyethylene terephthalate. Therefore, they are different. Kocher does not teach the use of carbon dioxide to form the foamed support member. Hayes, however, teaches the food container comprising a foam layer of copolyester using carbon dioxide as a blowing agent. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use carbon dioxide as a blowing agent to generate the foam cells in the support member because such is known in the foam art and Hayes provides necessary details to practice the invention of Kocher. Accordingly, the foam cells of Kocher as modified by Hayes are substantially inherently filled with carbon dioxide.

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Kocher as modified by Hayes does not teach a blow molded container. However, it is a product-by-process limitation not as yet shown to produce a patentably distinct article. It is the examiner's position that the article of Kocher as modified by Hayes is identical to or only slightly different than the claimed article prepared by the method of the claim, because both articles are formed from the same materials, having structural similarity. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or an obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. *In*

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re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show unobvious differences between the claimed product and the prior art product. *In re Marosi*, 218 USPQ 289,291 (Fed. Cir. 1983). It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show non-obviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Kocher as modified by Hayes.

Response to Arguments

9. The art rejections over Park taken alone or in combination with other references have been maintained for the following reasons. Applicant argues that Park teaches away from the claimed invention because Park requires the diffusion of the carbon dioxide through the cell wall. The arguments are not found persuasive for patentability. They are not commensurate in scope with the claims. The amendment "contain" does not differentiate the claimed container from a prior art container satisfying the claimed structural limitations because nothing is specific about the specific amount of the carbon dioxide contained in the foam cells associated with the process disclosed in the original disclosure. Additionally, the limitation of "one of carbon dioxide and nitrogen" does not preclude the foam cells from being substantially filled with carbon dioxide. Further, Applicant mentions that nowhere does Park disclose or suggest the foam sheet having a portion with specific dimensional tolerances or a portion not subjected to the

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molding process because Park does not disclose blow molding process. Again, the arguments are not found convincing for patentability because none of these structural features have been incorporated into the claims for showing distinctness between the prior art and the claimed invention.

10. Applicant has reiterated positions taken with respect to the other rejections, the examiner's comments set forth above are equally pertinent in the support of these rejections as well. Accordingly, all of the art rejections are sustained.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-

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1485. The examiner can normally be reached on Monday through Thursday, from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hai Vo/ Primary Examiner, Art Unit 1771

HV